HDTS

Helmet Display and Tracking System (ANVIS/HUD®24T)

Round-the-Clock Mission Solution

HDTS offers round-the-clock mission solution with advanced day and night display capabilities. Both the day and night displays operate as a single integrated system. The night display is mounted on the NVG and the day display is mounted on the same NVG helmet mount, offering a seamless solution for day and night operations.

Enhanced safety and situational awareness

HDTS improves flight safety and situational awareness by reducing the pilot's head and eye motion for cockpit scanning. Complicated maneuvers in bad weather and low visibility conditions, low altitudes (NoE) or during night can be performed safely with enhanced survivability.

Customizable display symbols

With independent displays for each pilot displaying critical flight information and multiple symbols related to the specific mission in an intuitive colored scheme, the HDTS offers a customizable solution that is compatible to the cockpit's instrumentation and displays.

Technical Specifications

Color Day Display Module	
Symbology	Full color symbology FOV 18°X18°
Contrast	1.2 Min. (at 10,000 FL)
Distortion	<1.5%
Eye relief	50 mm (allows glasses and visor between eye and display optics)
Weight	<340 grams
Compatibility	Easily attached to any standard NVG-Mount
Safety	Quick disconnect for emergency egress
Color Night Display Module	
Symbology	Full color symbology FOV 20°X20°
Contrast	1.2 Min.
Distortion	<1.5%
Eye relief	25mm (Identical to the NVG in use)
Weight	<55 grams
Compatibility	Easily attached to any standard NVG
Safety	Quick disconnect for emergency egress
Control Unit	
Weight	<260 gr.
Illumination	Day & NVG compatible (Type 1 NVIS Green A class A)
Tracker	
Concept	Add-on LRUs/SRUs to the legacy ANVIS/HUD® system
Concept Tracker technology	Hybrid Inertial-Magnetic
ASDC (Advanced Sight and Display Computer):	
Operation modes	8 display operation modes
Power	<110 Watts, 28 VDC
Weight	<5.85 Kg
Compatibility	>25 platforms, MIL-E-5400, MIL-A-49425 MIL-STD-461E
DIU Weight	<450 gr.

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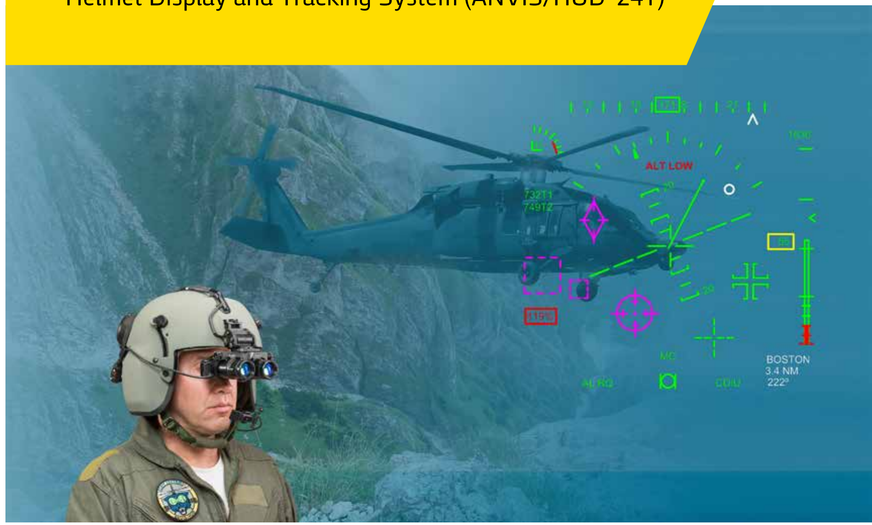

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Helmet Display and Tracking System (ANVIS/HUD®24T)

The new HDTS features enhanced situational awareness including color symbology and Line-of-Sight technology for improved mission effectiveness.

HDTS is designed to provide enhanced day/night situational awareness and increased survivability. The new HDTS combines the legacy ANVIS/HUD®* helmet mounted display with innovative Line-Of-Sight (LOS) technology and Day HUD capabilities, enhancing crew coordination while facilitating the operation of the helicopters' systems.

A proven solution for utility, multi-role, assault and maritime helicopters

Operating on over 7000 helicopters, 2.5 million operational hours accumulated in 25 different platforms, the HDTS can be installed on any helicopter - eastern and western.

- Round-the-clock mission solution
- Improves flight safety
- Enhances situational awareness
- Increases survivability
- Improves crew coordination

*Aviator's Night Vision Imaging System/Head Up Display

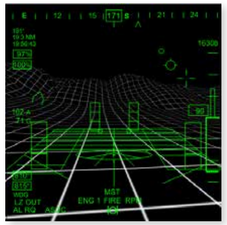
Tracking Capabilities

Enhanced crew coordination and targeting

The HDTS system offers a hybrid head-tracking capability that enhances crew coordination and improves the pilot's targeting and cueing capabilities. The hybrid tracker enables the HDTS to slave the helicopter's systems to the pilots' Line-Of-Sight (LOS) while displaying Electro-Optic Payload (EOP), weapon systems, and the co-pilot's LOS symbols. The Tracker can be seamlessly installed on operational systems.

Degraded Visual Environment (DVE) Solution (Optional)

The HDTS offers 3D conformal Symbology, that superimposes mission symbols onto the outer world scenery. The system allows sorties to be carried out in Degraded Visual Environment (DVE) conditions, when outside-cockpit vision is limited by bad weather conditions, sandstorms, brownouts or whiteouts.



- Improves crew coordination
  by displaying the other pilot's Line-Of-Sight.
- Reduces intercom traffic
  by allowing head-movement communications between the pilots in the cockpit.
- Facilitates targeting
  by continuously viewing the estimated impact point of the selected weapon.
  Weapon sight & targeting are performed via the HDTS tracking display.
- Improves mission efficiency
  by slaving the helicopter's systems to the pilot's LOS.
- Enhances helicopter self-protection
  by slaving the armament to the pilot's LOS, rapid weapons firing is enabled.
- Improves situational awareness
  by presenting mission symbology superimposed on the outer world view. Waypoints, landing point, targets, rescue points etc. are superimposed on the outer world view.

* In the UK the system is designated: Display Night Vision Goggles (DNVG)

Slaves the helicopter's systems to the pilots' Line-Of-Sight (LOS):

- EOP (Electro-Optic Payload)
- Weapon systems
- Navigation systems
- Digital Moving Map
- Other Pilot LOS (OPL)